

## ELECTRO SCAN - LEAK DETECTION TECHNOLOGY



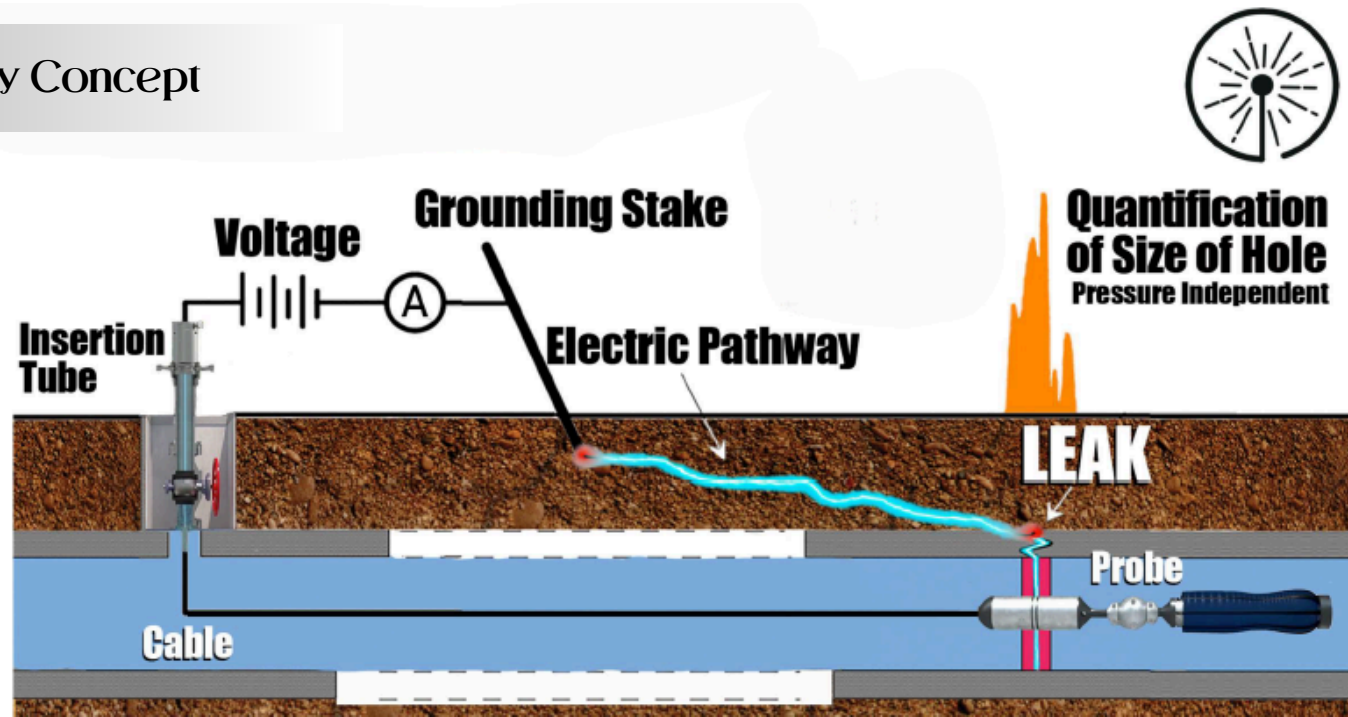
**Electro Scan** uses electrical current to accurately detect all pipe defects including those hidden in joints, cracks, and sewer tap connections. Its not only pinpoints the exact location of leaks but also measures their size. The greater the electrical flow, the larger the defect and leak potential. Unique current patterns also help identify the type of defect, whether it's a joint, tap, or crack.

### Advantages of Electro Scan Technology

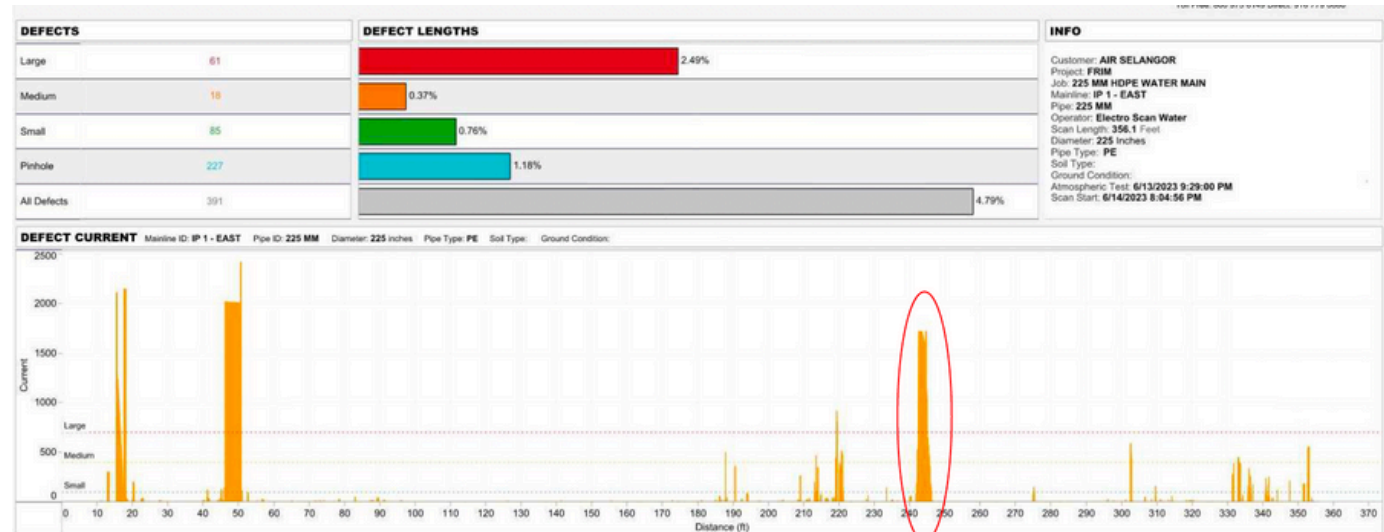
- Rapidly (10 – 15minutes) Detecting of Leakage & Size of Holes.
- No need to increase Pipe Pressure as this technology is Non-Acoustic.
- Can identify illegal water pipe connection or water theft.



# Technology Concept



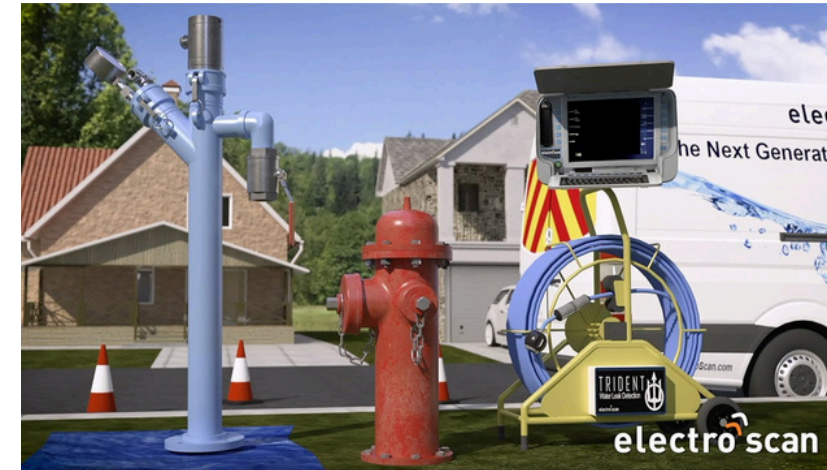
DEFECT AT 245.9FT



LEAK AS SEEN ON VISUAL PHOTO

## Technology Features

Feature	Performance	Pipe Materials
Sensors	Conductivity, CCTV	<ul style="list-style-type: none"> <li>• Asbestos Cement Pipe</li> <li>• Cast &amp; Ductile Iron Pipe</li> <li>• Cement-Lined Pipe</li> <li>• Cured-In-Place Pipe</li> <li>• Glass Reinforced Pipe</li> <li>• High Density Polyethylene</li> <li>• Plastic Pipe, Including PVC UPVC, HDPE, MPE, PE</li> <li>• Pre-Stressed Concrete Cylinder Pipe</li> <li>• Reinforced Concrete Pipe</li> <li>• Internally Coated Steel Pipes</li> <li>And, Force / Rising Sewer Mains.</li> </ul>
Pipe Diameters / Probe Size	3-10 inches (76-250 mm) Probe is 5 inches long x 1.6 inches round (125 mm long x 40 mm round)	
Pressure	ZERO to 175 psi (12 Bar)	
Temperatures	41-86° F (5-30° C)	
Common Launch Points	>= 3 inches (76 mm) Through Bore Hydrants, Gate Valves, Hot Taps	
Flow Velocity	Can handle no flow conditions.	
Pricing	Per Day or Per Meter Based on Total. Project Size, Difficult Entry Access, Openings, Diameter, Traffic Control.	
Pipe Lengths Per Survey	328 feet (100m) for Conductivity / CCTV.	
Average Production	Between 2,500-3,000 feet (750-900m) per day depending valve location and operational readiness.	



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**LEGASI FUTURA SDN. BHD.**  
202301024441 (I518364-T)

☎ 085-647700    📞 +6013-8626042

✉ enquiry@legasifutura.com.my

🌐 <https://legasifutura.com.my/>

📍 1st Floor, Lot 2161 Block 5, Jalan Saberkas  
Utama, Jalan Pujut - Lutong,  
98000 Miri, Sarawak.

🌐 📱 Legasi Futura